| Index of Claims  | Application/Control No. | Applicant(s)/Patent under Reexamination |
|--|-------------------------|---|
|  | 10/046,466              | MIERNIK ET AL.                          |
|  | Examiner                | Art Unit                                |
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|--|----------------|----------|------|--------|----------|---|--|---------|----------|---|----------|-------------------------------------|--|------|------------|-----|-----------------|--|--------------|--------------------|----------|--------------------|-----------|--------------|----------|------------|-----------|-----|----------|----------|----------|----------|----------|----------|---------------|----------|---|
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| Simple   S | <u></u>        | 힐        | 8    | 3      | ı        |   | l                                      | ı       |          |   | l        |                                     |  |      |            | nal | 18              |  |              | l                  | l        |                    |           |              |          |            | 7         | nal | - 1      |          |          | 1        |          |          |               | - 1      |   |
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| 102  | ш.             | ŏ        | à    | δĺ     |          |   | ı                                      |         |          |   |          | ŀ                                   |  |      | ш.         | Ŏ   | 9               |  |              | l                  | l        |                    |           |              |          |            | ш         | ŏ   |          |          |          | - [      |          | ļ        |               | - 1      |   |
| 102  |                | <u> </u> | -    |        | -        |   | ╀                                      | +       |          |   | <u> </u> | -                                   | -                                      | ┨    | -          | E4  | L /             | ⊢                                      | ┢            | ┢┈                 | ├        | -                  | $\vdash$  | -            |          |            |           |     |          | +        | +        | +        | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ | _ |
| Signature   Sign | <u> </u>       |          | L    | 1      | -        |   | ╀                                      | +       | 4        |   | _        |                                     | ┝                                      | ł    | -          |     | 肸               | ┝                                      | ⊢            | ╀                  | ⊢        | H                  | Н         | -            | $\dashv$ |            |           |     | -        | +        | -        | -        |          | $\dashv$ | -             |          | _ |
| 4  |                |          | Ļ    | ₩      | _        |   | ⊢                                      | +       | -        |   | _        |                                     | ⊢                                      | -    |            |     | Н               | -                                      | ┢            | ⊢                  | ⊢        | -                  | Н         | $\dashv$     | $\dashv$ |            |           |     |          |          | -        | $\dashv$ |          |          |               |          |   |
| 55   | <u> </u>       |          | Ļ    | ₩      | -        |   | ⊢                                      | +       | $\dashv$ |   | <u> </u> | ├-                                  | ـ                                      | ł    |            |     | Н               | ⊢                                      | <del> </del> | ╀┈                 | ├        | _                  |           |              | $\dashv$ |            |           |     |          | -+       | -        | -        | $\dashv$ | -        | $\dashv$      | 4        |   |
| 6  | <u> </u>       |          | -    | Н      | _        |   | ╀                                      | +       | $\dashv$ |   |          | -                                   | ├-                                     | -    | <u> </u>   |     | Н.              | ┢                                      | ├            | ╀                  | ├-       |                    | Н         | -            |          |            |           |     | -        | +        | $\dashv$ | -        |          | _        |               | -1       | _ |
| 107  |                |          | L    | Н      | -        |   | ╀                                      | 4       |          |   | _        | <u> </u>                            | -                                      | -    | -          |     | M               | <del> </del>                           | _            | +                  | ┝        | _                  | Н         | $\dashv$     | ᅫ        |            |           |     | -        | $\dashv$ | $\dashv$ | $\dashv$ | -        | _        | _             | _        |   |
| Section   Sect |                |          | ١    | Ц      | 4        |   | ╁                                      | +       | -        |   |          | <u> </u>                            | ┡                                      | ۱.,  | <u> </u>   |     | <u> </u>        | -                                      | ⊢            | ╀                  | ⊢        | $\vdash$           | $\vdash$  |              | $\dashv$ |            |           |     |          | -        | $\dashv$ | $\dashv$ |          | -        |               |          | _ |
| S  | <u> </u>       |          |      |        | _        |   | ╀                                      | +       | $\dashv$ |   |          | ⊢                                   | ┢                                      | -    | <u> </u>   |     | ⊢               | ├                                      | ├            | ⊢                  | ⊢        |                    | Н         | $\dashv$     | $\dashv$ | - 2        |           |     | -        | +        | $\dashv$ |          | $\dashv$ | -        | -             |          |   |
| 10   |                |          | [    | ٦,     | 4        |   | ⊢                                      | +       | $\dashv$ | _ | <u> </u> | <u> </u>                            | ┞                                      | ┨ .  | <u> </u>   |     | L               | ⊢                                      | ⊢            | ┼                  | ⊢        | L                  | Н         | $\dashv$     |          |            |           |     |          | $\dashv$ | $\dashv$ | $\dashv$ | -        | _        | _             | _        |   |
| 11   |                |          | L    | 4      | _        |   | ╄                                      | +       | -        |   | ļ        | <u> </u>                            | ┡                                      | 4    | <u> </u>   |     | <u> </u>        | ┡-                                     | <u> </u>     | ╄                  | ļ        | _                  | Н         | $\dashv$     | $\dashv$ |            |           |     | _        | +        | $\dashv$ | $\dashv$ | $\dashv$ | _        | _             |          |   |
| 12   |                |          | L    | Н      | _        |   | ┢                                      | +       | 4        |   | _        | <u> </u>                            | -                                      | ŧ.   |            |     | ┡               | ╄                                      | ┡            | ├_                 | ┡        | L                  | $\square$ | $\dashv$     |          |            |           |     | $\dashv$ | +        | -        |          |          |          | -             |          |   |
| 13   |                |          | L    | Н      | 4        |   | ╀                                      | +       | 4        |   | <u> </u> |                                     | <del> </del>                           | -    |            |     | _               | ₩                                      | ⊢            | 1-                 | _        | $\vdash$           | $\sqcup$  | $\dashv$     |          |            |           |     | _        | +        | 4        | _        |          |          | _             | _        |   |
| C(3)   | <u> </u>       |          | ├-   | Н      |          |   | ╄                                      | +       | 4        |   | $\vdash$ | <b>—</b>                            | <del> </del> —                         | -    | <u> </u>   |     | _               | $\vdash$                               | L            | $\vdash$           | $\vdash$ | $\vdash$           | Ш         | $\dashv$     | ᅴ        |            | L         |     |          |          | 4        | -        |          |          | $\dashv$      | 4        |   |
| 15   |                |          | L    | 11     | ~        |   | ╄-                                     | 4       | -        |   | $\vdash$ | ⊢                                   | ₽                                      | 1    | <u> </u>   |     | <u> </u>        | -                                      | ┡            | $\vdash$           | $\vdash$ | ⊢                  | Н         | $\vdash$     | $\dashv$ |            |           |     | $\dashv$ | $\dashv$ | $\dashv$ | _        | -        | _        | $\rightarrow$ | $\dashv$ |   |
| 16   |                |          | A    | 4      | _        |   | ┡                                      | 1       | _        |   | ļ        | ļ                                   | <del> </del>                           | -    | <u> </u>   |     | L               | ╄                                      | $\vdash$     |                    |          | <u> </u>           | $\vdash$  | $\dashv$     |          |            |           |     | $\dashv$ | +        |          |          |          |          | _             |          |   |
| 17   |                |          | L    | 1      | _        |   | ╄                                      | +       | $\dashv$ |   |          | <u> </u>                            | 1                                      | 4    | <u> </u>   |     | <u> </u>        | ļ                                      | <del> </del> | ┼                  | ⊢        | <u> </u>           | Щ         | $\dashv$     | _        | i i        |           |     | -        | $\dashv$ | 4        | _        | -        | _        | _             | -        |   |
| 18   | <u></u>        |          | 1    | $^{+}$ |          |   | ╀                                      | +       | 4        | _ | -        | ₩                                   | ⊢                                      | -    | <u> </u>   |     | ├-              | ╀-                                     | ـ            | ╄                  | ├-       | Ь                  | Н         |              | _        | 42.<br>42. | ļ         |     | -        | +        | $\dashv$ | 4        | -        | _        | _             | _        |   |
| 19   |                |          | 1    | Н      | 4        |   | ╀                                      | +       | 4        |   | ļ        | ļ                                   | <del> </del>                           | 1    |            |     | $\vdash$        | 1                                      | $\vdash$     | ╄                  | -        | <u> </u>           | $\sqcup$  |              |          |            | L         |     | _        | 4        | 4        | 4        | _        | 4        | _             | 4        |   |
| 120   120   121   121   122   123   123   123   123   123   123   124   124   125   125   126   126   126   126   127   127   127   127   128   128   129   129   129   129   130   130   130   131  |                |          | H    | Ц      | _        |   | ╀                                      | 1       | _        |   | <u> </u> | ↓                                   | ـــ                                    | -    | <u></u>    |     | _               | ↓                                      | ┞            | 1                  | <b> </b> | _                  | $\sqcup$  | $\Box$       | _        |            |           |     | _        | $\dashv$ | _        | $\dashv$ | _        | _        | _             | _        |   |
| 121  |                |          | Ų    | _      |          |   | 1                                      | 1       |          |   | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _                                      | 1    | <u> </u>   |     | _               | ↓_                                     | <del> </del> | 1_                 | <u> </u> | <u> </u>           | Ш         | $\sqcup$     | _        |            | L         |     | _        | 4        | _        | $\dashv$ | _        | _        | _             | _        | _ |
| 122  |                |          | _    | _      | _        |   | $\perp$                                | 1       | _        |   | <u> </u> | ╙                                   |  | 1    |            |     | ļ               | ļ                                      | <u> </u>     | ļ                  | <u> </u> | <u> </u>           | Щ         |              | _        |            |           | 120 | _        | _        | _        |          |          |          |               | _        |   |
| 123  | <u></u>        |          | C    | 2      |          |   | $\perp$                                | 4       | _        |   | <u> </u> | $oxed{oxed}$                        | ┞.                                     | ١.   | <u> </u>   |     | L               | _                                      | $\perp$      | 1                  | <u> </u> | _                  | Ш         | Щ            |          | ľ          |           |     | _ļ       | $\perp$  | $\dashv$ | $\dashv$ | _        |          | _             | _        |   |
| 124  | <u> </u>       |          | 1    | 4      |          |   | ┖                                      | $\perp$ | _        |   | <u> </u> | <u> </u>                            | 上                                      | 1    | <u> </u>   |     | <u> </u>        | ــــ                                   | $\vdash$     |                    |          | <u> </u>           | Ш         |              |          |            |           |     | _        | _        | _        |          | _        |          | _             | _ļ       |   |
| 75   |                |          | L    | П      | _        |   | L                                      | ┵       | _        |   |          | $oxed{oxed}$                        | 1                                      | 1    | ļ          |     | Ļ               | 1_                                     | _            | <u> </u>           | <u> </u> | <u> </u>           | Ш         |              |          |            |           |     |          | _        | $\perp$  | _        |          | ļ        | _             | _        |   |
| Tell   | <u> </u>       |          | L    | Щ      | _        |   | ↓                                      | 4       | _        |   | <u> </u> | ↓_                                  | <u> </u>                               |      | <u> </u>   |     | $\vdash$        | ↓_                                     | $\vdash$     | <u> </u>           | <u> </u> | <u> </u>           | Щ         |              |          |            |           |     | ļ        | _        | _        | _        |          | _        | _             |          |   |
| 127  |                |          | L    | Ц      |          |   | L                                      | 1       | _        |   | <u> </u> | $oxed{oxed}$                        | 1                                      | 1    | <u> </u>   |     | <u> </u>        | 1                                      | $\vdash$     | <u> </u>           | ļ.       | <b>!</b>           | Щ         |              |          |            |           |     | _        | 4        | _        | _        | _        |          | _             | _        |   |
| 28   78   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   88   136     39   88   138     40   90   140     41   91   141     42   92   142     43   94   144     44   94   144     45   96   146     47   97   147     48   98   149  | L              |          | Ļ    | Ц      |          |   | L                                      | 1       |          |   | <u>L</u> | L                                   | 1                                      | 1    | ļ          |     | <u> </u>        | <u> </u>                               | _            | ļ                  | <u> </u> | 乚                  | Щ         |              |          |            |           |     |          | $\perp$  | _        |          |          |          |               |          |   |
| 79   |                |          | н    | 4      | $\angle$ |   | $\perp$                                | 1       | _        |   | <u> </u> | ـــــ                               | ↓_                                     | 1    | <u> </u>   |     | <u> </u>        | ╙                                      | $\vdash$     | 1                  | <b>_</b> | Ш                  | Щ         | $\sqcup$     | _        | i, i ·     |           |     | _        | $\dashv$ | $\dashv$ | _        | ļ        |          | _             |          |   |
| 30   O     80     130     131     131     132     132     132     132     133     133     134     134     135     136     136     136     137     137     138     138     138     139     140     141     141     142     142     142     143     144     145     146     146     146     146     147     148     148     148     148     148     148     148     148     148     148     149     149     149     149     149     149     149     149   14 |                |          | ļ,   | Ц,     | _        |   | L                                      | 1       | _        |   | _        | ┖                                   | 1_                                     | 1    | L          |     | L.              | 1                                      | _            | 1                  | <u> </u> | <u> </u>           | Щ         | $\sqcup$     |          | [          |           |     | _        | $\dashv$ | $\perp$  | _        | _        |          |               | _        |   |
| 31 O 81   32 O 82   33 V 83   34 I 84   35 I 85   36 I 86   37 V 88   88 138   39 V 88   40 I 90   41 V 91   42 V 92   43 OA 93   44 V 94   45 I 95   46 I 96   47 V 98   48 V 98   148 V 98   149   |                |          | 1,   | 1      | _        |   | $\perp$                                | 1       | _        |   | <u> </u> | <u> </u>                            | ↓_                                     | 1    | <u> </u>   |     | Ь.              | ↓_                                     | _            | <u> </u>           | <u> </u> | <u> </u>           | Щ         | $\Box$       |          | ŀ          |           | 129 | _        | $\perp$  | _        | _        |          | Ш        |               |          |   |
| 32   0   132   133   133   134   134   134   134   135   135   135   135   136   136   136   137   137   137   137   138   138   139   140   141   141   141   142   142   142   143   144   144   144   145   145   146   147   148   148   149   1 |                |          | _    | _      | _        | _ | 丄                                      | ┸       | _        |   |          |                                     | _                                      | ]    | <u> </u>   |     |                 | <u> </u>                               | ┖            |                    | _        |                    | Ш         | $\Box$       |          |            |           |     | _        | _        |          | _        |          |          | $\Box$        |          |   |
| 33   |                |          | C    | ۱(     | _        |   | ╄                                      | $\perp$ | _        |   | <u> </u> | <u> </u>                            | 1                                      | 1    | <u></u>    |     | <u> </u>        | 1_                                     | _            | <u> </u>           | 1        | <u> </u>           | Ш         | Щ            |          |            |           | 131 |          | $\dashv$ | _        |          |          | Ш        | $\Box$        |          |   |
| 34   134   135   135   136   136   136   137   137   137   138   138   138   138   139   140   141   141   142   142   142   143   144   144   145   145   146   146   147   148   148   149   |                |          | C    | 2∤     | <u>.</u> |   | $\perp$                                | $\perp$ | $\Box$   |   | L_       | <u> </u>                            | L                                      | 1    | <u></u>    |     | <u> </u>        | ــــــــــــــــــــــــــــــــــــــ | L            | <u> </u>           |          | L                  | Ш         |              |          |            |           |     |          | _        |          |          |          |          |               |          |   |
| 35   |                |          | V    | 4      | ļ        |   | 上                                      | $\perp$ | _        |   |          | <u> </u>                            | 1_                                     | ↓ .  | <u></u>    |     | <u>_</u>        | 1                                      | _            |                    | 1        | <u> </u>           | Ш         |              |          |            |           |     |          | _        |          |          |          |          |               | $ \bot $ |   |
| 36 86   37 88   88 138   89 139   40 90   41 91   42 92   43 94   44 94   45 95   46 96   47 97   48 98   140   141   142   143   144   145   146   147   148   99   |                |          | L    | Ц      | _        |   | 1                                      | 4       | $\perp$  |   | L        | <u> </u>                            | ـــــ                                  | 1    |            | 84  | <u>_</u>        | _                                      | 1            | _                  | <u> </u> | <u> </u>           | Ш         |              |          |            |           | 134 |          | $\dashv$ |          |          |          |          | Ш             | _        |   |
| 35   |                |          | Ц    | 4      | _        |   | L                                      | ┸       | _        |   | 匚        | Щ                                   | ــــــــــــــــــــــــــــــــــــــ | ļ. 1 |            |     | 乚               | 丄                                      | ot           | ↓_                 | 1_       | L                  | Ш         | Ш            |          |            |           |     | _        | _        | $\perp$  |          |          |          |               |          |   |
| 88   |                |          | Ц    | J,     | _        |   | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | $\perp$ |          |   | L        | <u>L</u>                            | _                                      | 1    |            |     | L               | 1                                      | L            | ļ                  | 1        | L                  | Ш         |              |          |            |           |     | _        |          |          |          |          |          |               | _        |   |
| 139  |                |          | Ŋ    | 4      | _        |   | $\perp$                                | $\perp$ | _        |   | L.       | <u> </u>                            | 1_                                     | 1    | <u> </u>   |     | _               | 1_                                     | _            | 1                  | _        | L                  | Ш         | $\Box$       |          |            |           |     |          | $\perp$  |          |          |          |          | $\Box$        |          |   |
| 40   41   42   43 0   93   143   94   144   95   145   96   146   97   148   99   148   99   149   | <u></u>        | (38)     | F    | ٥,     | 4        |   | $\perp$                                | $\perp$ | $\perp$  |   | L        | <u> </u>                            | ↓_                                     | 1    | L          |     | 1               | 1_                                     | L            |                    | <u> </u> | L                  | Ш         | $\Box$       |          |            |           | 138 | $\perp$  | $\perp$  |          |          |          |          |               |          |   |
| 41 91   42 92   43 94   44 94   45 95   46 96   47 97   48 98   48 99   141   42 142   143 144   145 145   146 146   147 147   148 148   99 149  | <u></u>        | (39)     | ۱    | 4      | _        |   | <u> </u>                               | ↓       |          |   | L        | _                                   | $\perp$                                | 1    |            | 89  | <u> </u>        | 1_                                     | L            | _                  | 1        | <u> </u>           | Ш         |              |          |            |           | 139 |          | $\perp$  |          |          |          |          | Щ             |          |   |
| 42   43 O <sub>A</sub> 93   143   94   144   95   145   96   146   97   147   98   148   99   149  | L              |          | Ľ    | Ц      | _        |   | L                                      | $\perp$ |          |   |          | <u> </u>                            | _                                      | 1    | <u> </u>   | 90  | <u> </u>        | 1_                                     | <u> </u>     | ļ                  | <u> </u> | <u> </u>           | Ш         | Щ            |          |            |           | 140 | _        |          |          |          |          |          | Ш             | _        |   |
| 43   Oh  | L              |          | Ц    | بإ     | _        |   | $\perp$                                | 1       | $\sqcup$ |   |          | $oxed{oxed}$                        | 1                                      | 1    | L          |     | L               | <del> </del>                           | L            |                    | L_       | <u> </u>           |           |              |          | .          |           |     |          | $\perp$  |          |          |          |          |               |          |   |
| 44 94   45 95   46 96   47 97   48 98   48 99   48 148   49 149  |                | 42       | V    | 4      |          |   | $\perp$                                | $\perp$ |          |   | <u> </u> | $oxed{igspace}$                     | _                                      | 1    | L          | 92  | <u> </u>        | $\perp$                                | L            | ↓_                 | ļ        | L                  | Щ         |              |          | . !        |           | 142 |          | $\perp$  | $\perp$  |          |          |          |               |          |   |
| 45 95 145 146 146 147 147 148 149 149 149 149  |                |          | (    | /د     | Ц        |   | $\perp$                                | $\perp$ |          |   | <u> </u> | 丄                                   | $\perp$                                | 1    | <u></u>    | 93  | $oxed{igspace}$ | ↓_                                     | L            | $oldsymbol{\perp}$ | L        | <u> </u>           | Ш         | $\Box$       |          | -          |           |     | $ \bot $ | $\perp$  | $\bot$   | _        | i        |          | $\perp$       |          |   |
| 46<br>47<br>48<br>48<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49   |                |          | 1    | 4      |          |   | L                                      | $\perp$ |          |   | _        | L                                   |  | 1    | L          | 94  |                 | L                                      | L            |                    |          | $oxedsymbol{oxed}$ |           | $oxed{oxed}$ |          |            |           |     |          |          |          |          |          |          |               |          |   |
| 47 97 147 148 98 148 149 99 149 149  |                | 45       | L    | Щ      |          |   | Ĺ                                      |         |          |   |          | L                                   | L                                      | 1    |            | 95  |                 |  |              |                    |          |                    |           |              |          |            |           | 145 |          | $\Box$   |          |          |          |          |               |          |   |
| 48 V 98 148 149 99 149 149   |                |          | Ĺ    | Щ      | $\lceil$ |   | L                                      |         | ╝        |   | 匚        | $\Box$                              | $\Box$                                 | ]    |            |     |                 |  |              |                    |          | 匚                  |           |              |          |            |           |     |          |          |          |          |          |          |               | $\Box$   |   |
| (49 N)   99   149   149   1  |                |          |      | 14     |          |   |  | I       |          |   |          | Ĺ                                   |  | ]    |            |     |                 | $\Box$                                 |              |                    |          |                    |           |              |          |            |           |     | $\Box$   | $\Box$   |          |          |          |          | $\Box$        |          |   |
| (49)N  |                | 48       |      |        |          |   | Γ                                      | I       |          |   |          | $\Box$                              |  | ]    |            | 98  | L               |  | Γ            | $L^{T}$            | $L^-$    |                    |           |              |          |            |           | 148 |          |          |          |          |          |          |               |          | _ |
| [ 100   1   1   1   1   1   1   1   1   1  |                | 49       | ١    | J,     |          | _ | Γ                                      | T       | _1       |   |          | $\Box$                              |  |      |            | 99  | Γ               |  | Γ            |                    |          |                    |           |              |          |            |           | 149 | $\Box$   | $\Box$   | _]       | $\Box$   | $\Box$   |          | $\Box$        | ╗        |   |
| <u> </u>   |                | 50       |      | J      |          |   |  | T       |          |   |          |                                     |  |      |            | 100 | Γ               |  | Г            |                    |          |                    |           |              |          |            |           | 150 |          | $\Box$   | ╗        | $\Box$   |          |          |               |          |   |